

Replacement Sheet
 Title: DIGITAL DATA COMPRESSION
 ROBUST RELATIVE TO
 TRANSMISSION NOISE
 Inventor(s): Herve JEGOU et al
 Appl. No.: 10/521,963

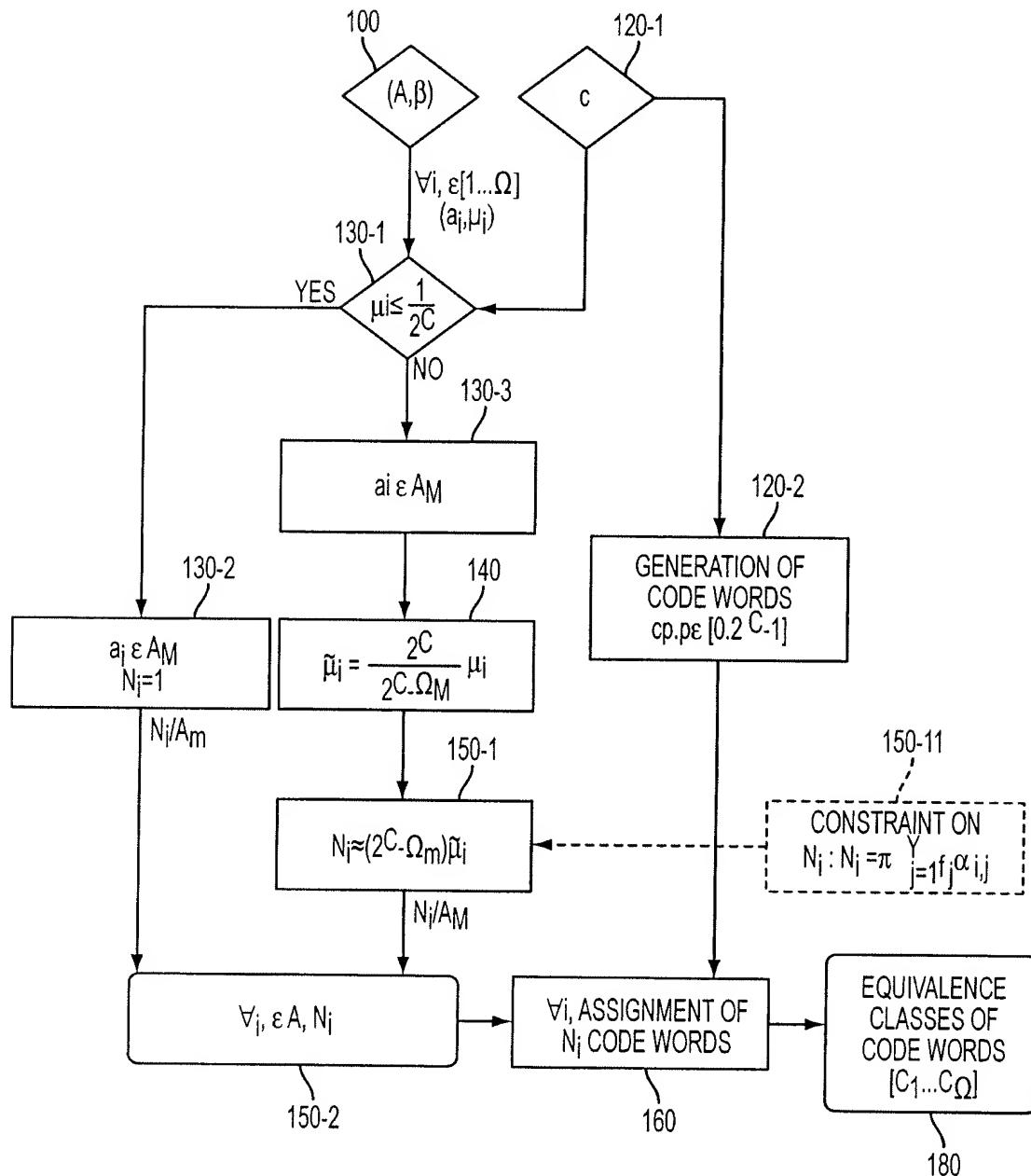


FIG. 1

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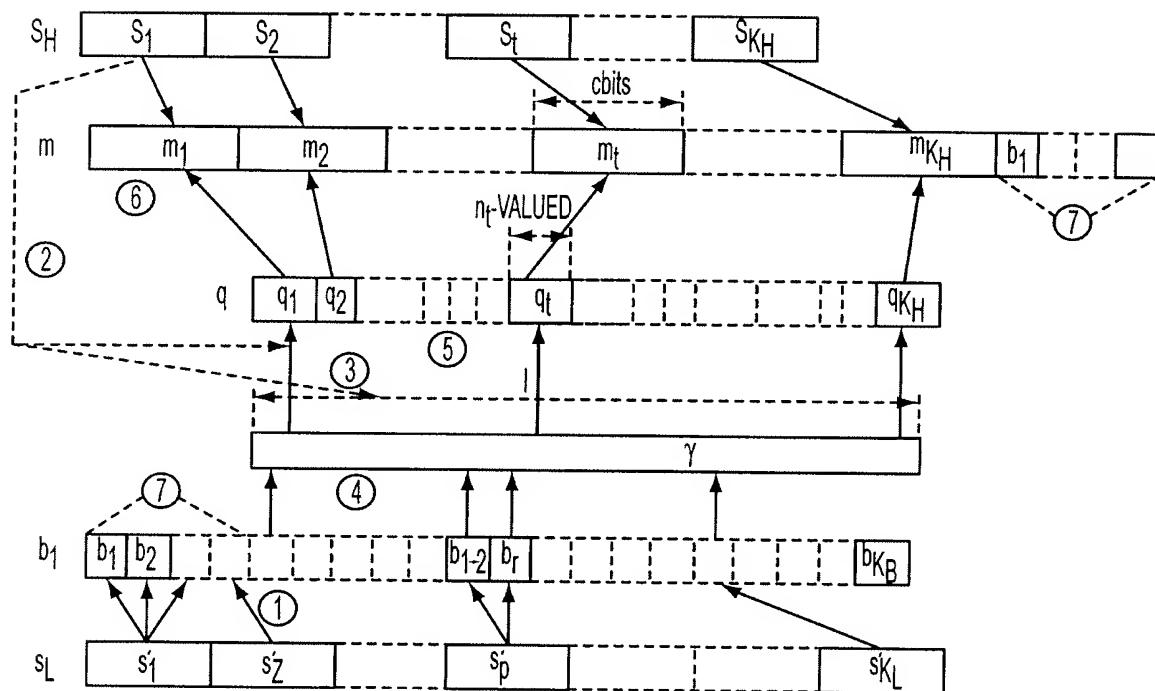


FIG. 2

11_A 12_A 13_A 14_A 15_A 16_A

CLASS C_i CODE WORD $C_{i,q}$	SYMBOL a_i	$N = \text{CARD}(C_i)$	PROBABILITY μ_i	STATE q
C_1	0000	a	6	0
	0001			1
	0010			2
	0011			3
	0100			4
	0101			5
C_2	0110	b	5	0
	0111			1
	1000			2
	1001			3
	1010			4
C_3	1011	c	4	0
	1100			1
	1101			2
	1110			3
C_4	1111	d	1	0.02

FIG. 2A

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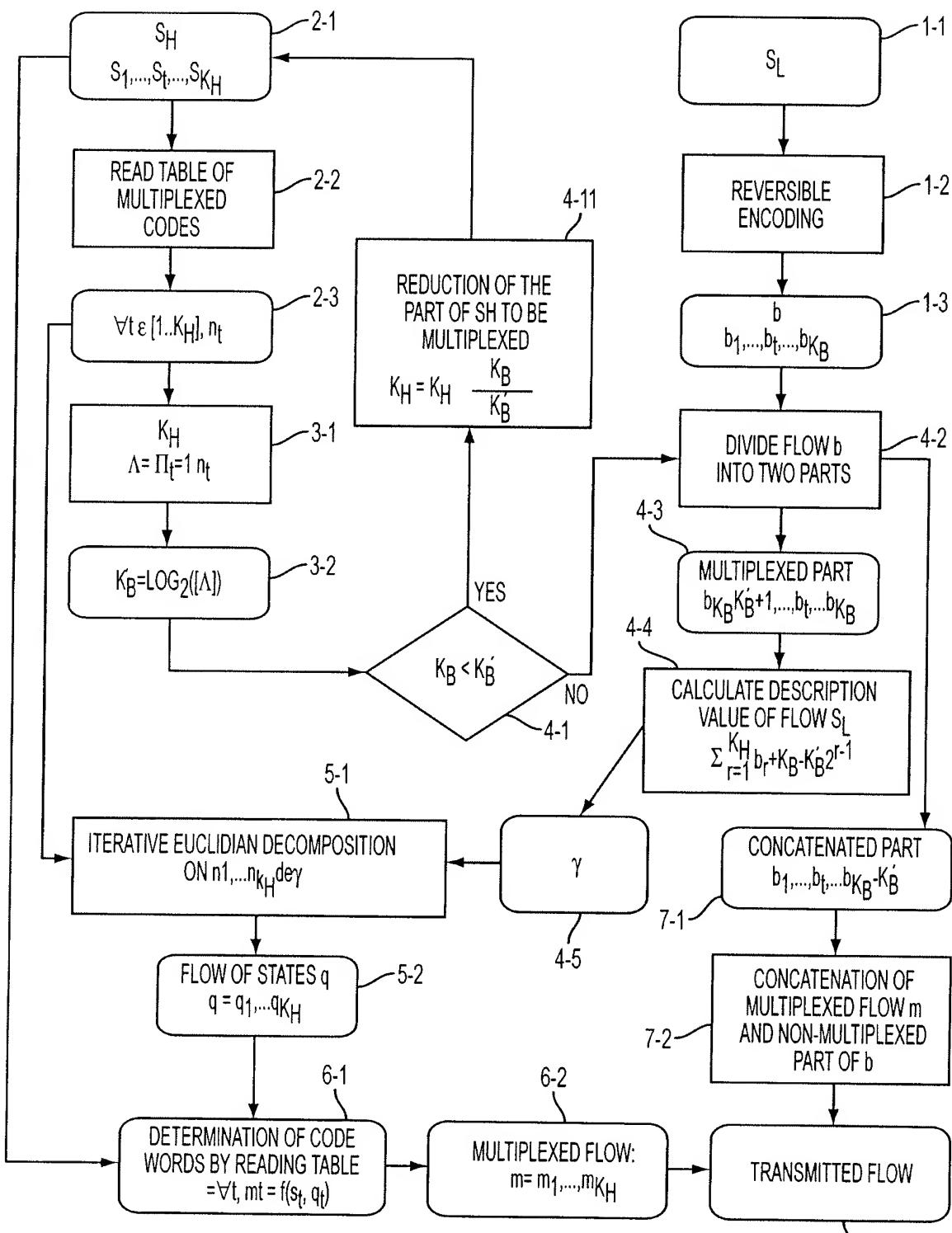


FIG. 3

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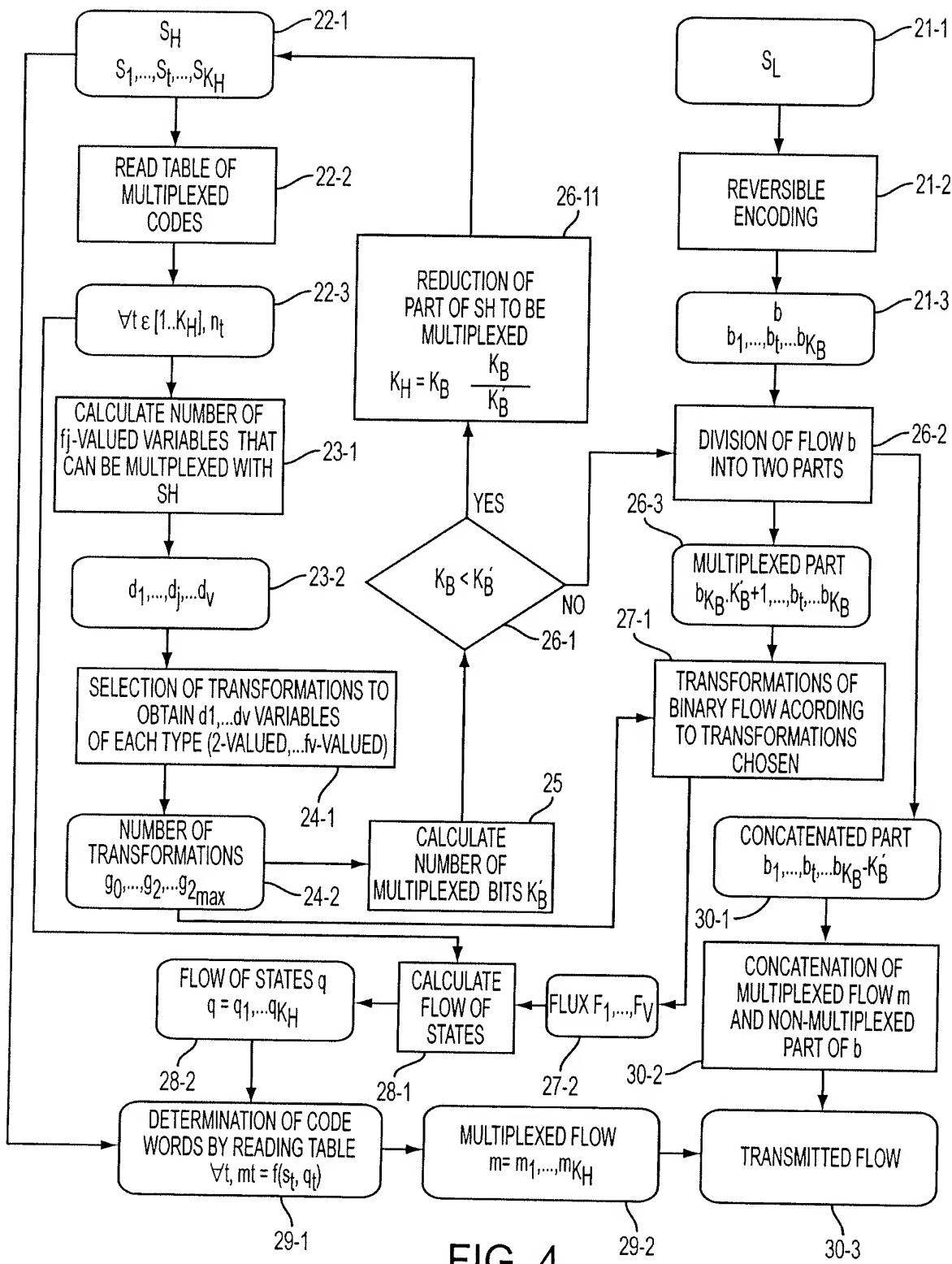


FIG. 4

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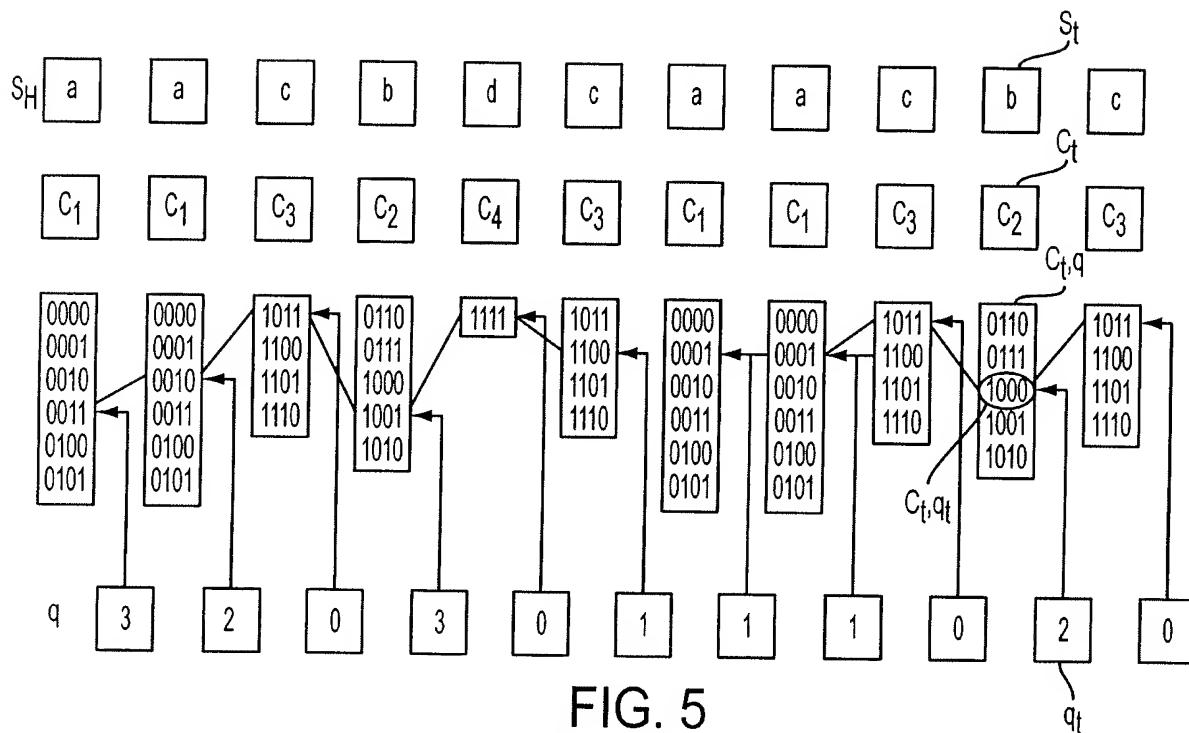


FIG. 5

31 32 33 34 35

T_Z	IDENTIFIER	U_{T_Z}	$V_{T_Z,1}$	$V_{T_Z,2}$	$V_{T_Z,3}$	O_{T_Z}
T_0		1	1	0	0	0.0000
T_1		15	0	8	1	0.0001
T_2		21	0	3	7	0.0004
T_3		19	0	12	0	0.0010
T_4		25	0	7	6	0.0011
T_5		24	0	2	9	0.0028
T_6		14	0	3	4	0.0030
T_7		18	0	7	3	0.0034
T_8		27	0	1	11	0.0047
T_9		17	0	2	6	0.0060
T_{10}		30	0	0	13	0.0062
T_{11}		20	0	1	8	0.0080
T_{12}		11	0	7	0	0.0086
T_{13}		23	0	0	10	0.0095
T_{14}		6	0	1	2	0.0381
T_{15}		3	0	2	0	0.0566
T_{16}		2	0	0	1	0.1610
$T_{Z_{\max}} = T_{17}$		1	0	1	0	0.5850

FIG. 6

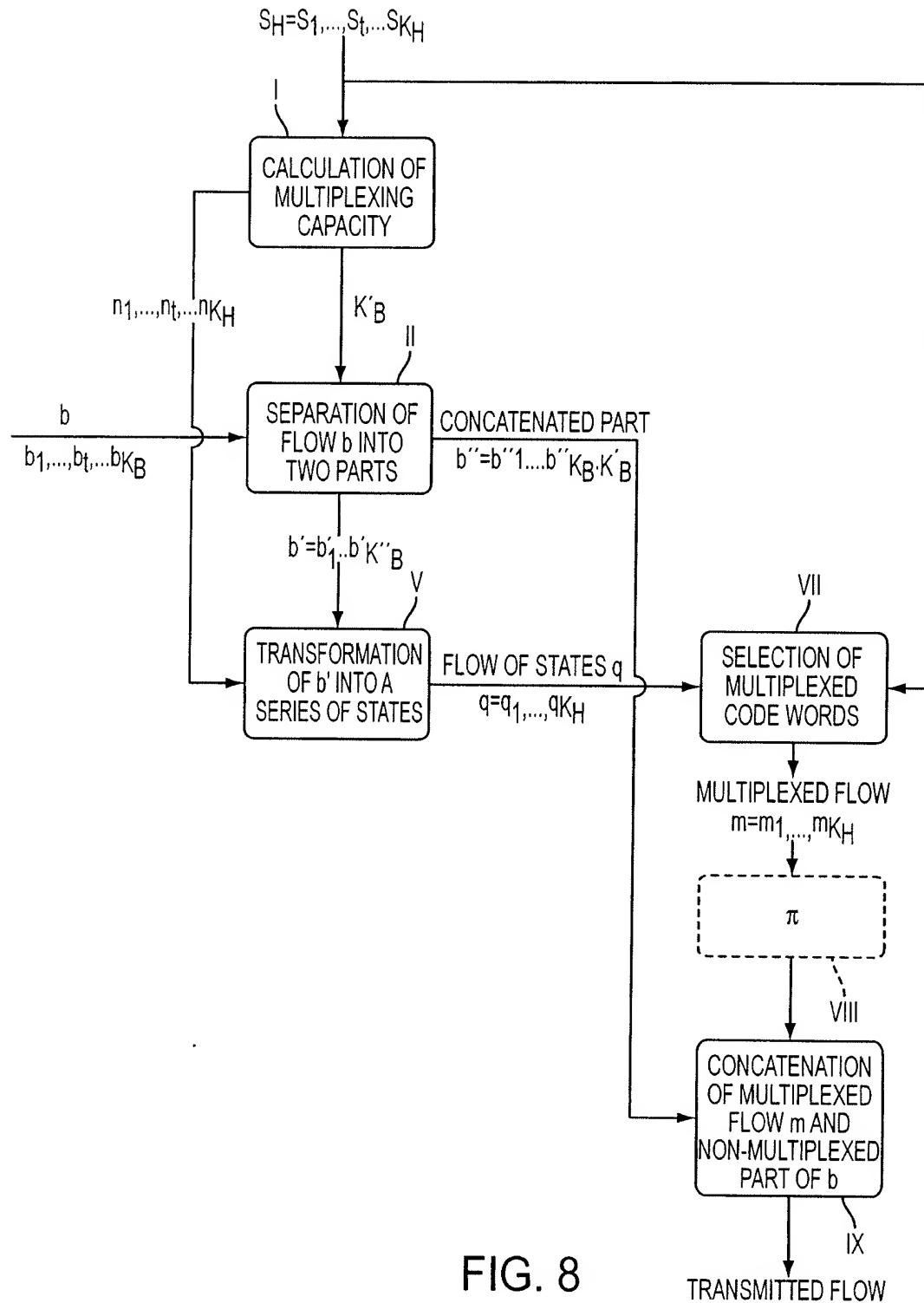


FIG. 8

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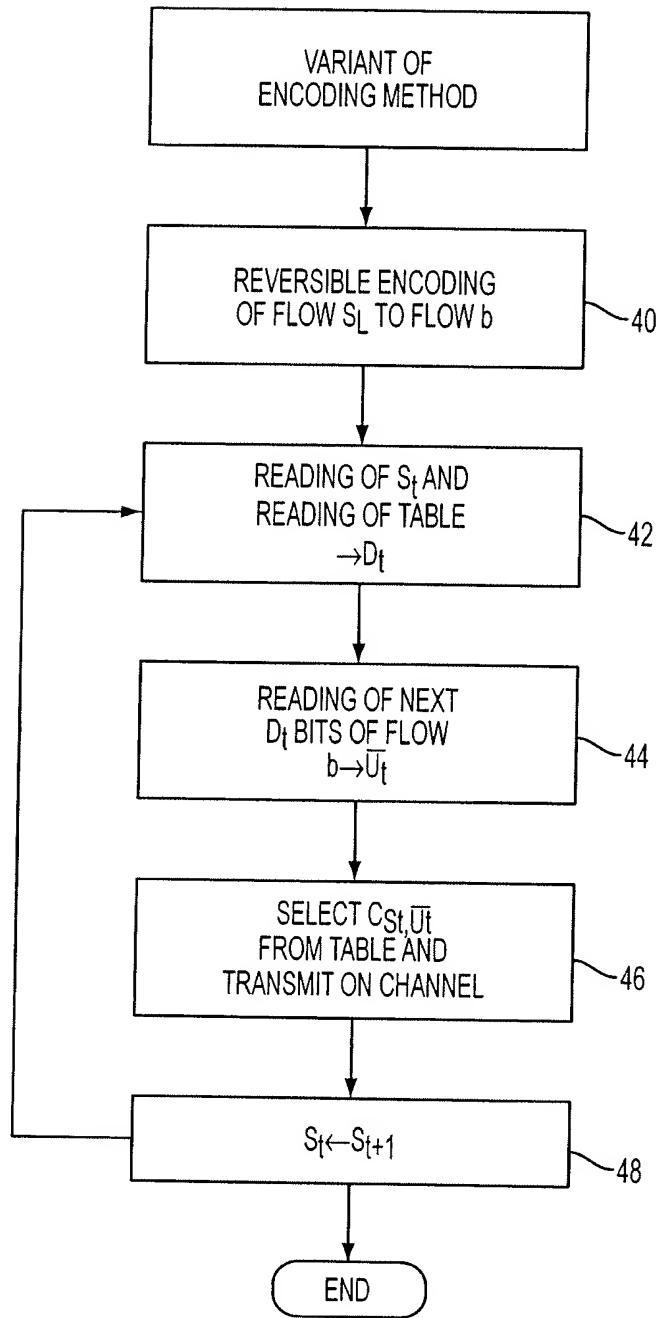


FIG. 9

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11-B	12-B	13-B	18-B	14-B	15-B	17-B
CLASS C_i	C_i, \bar{U}_i	a_i	D_i	$N_i = Z^{1i}$	μ_i	\bar{U}_i
C_1	000	a_1	1	2	0.30	0
	001					1
C_2	010	a_2	2	4	0.43	00
	011					01
	100					10
	101					11
C_3	110	a_3	0	1	0.25	\emptyset
C_4	111	a_4	0	1	0.02	\emptyset

FIG. 2B

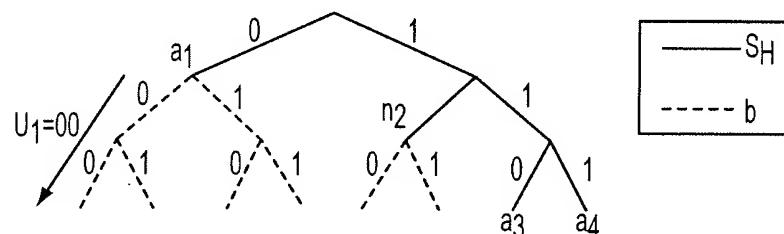


FIG. 7

S_t	a_2	a_1	a_1	a_3	a_1	a_2	a_1	a_4	a_2	a_1
PREFIX	10	0..	0..	110	0...	10..	0..	111	10..	0..
SUFFIX \bar{U}_t	..0	.10	.1010	.1	.010	.10
m_t	100	010	010	110	010	101	001	111	100	010

FIG. 10

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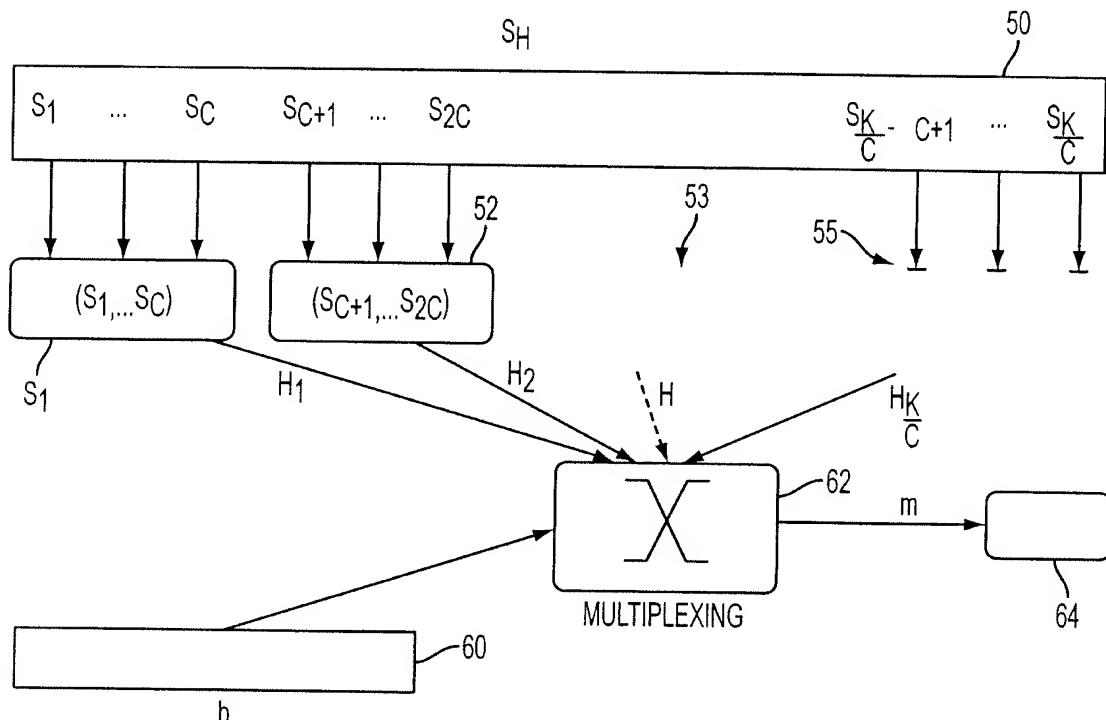


FIG. 11

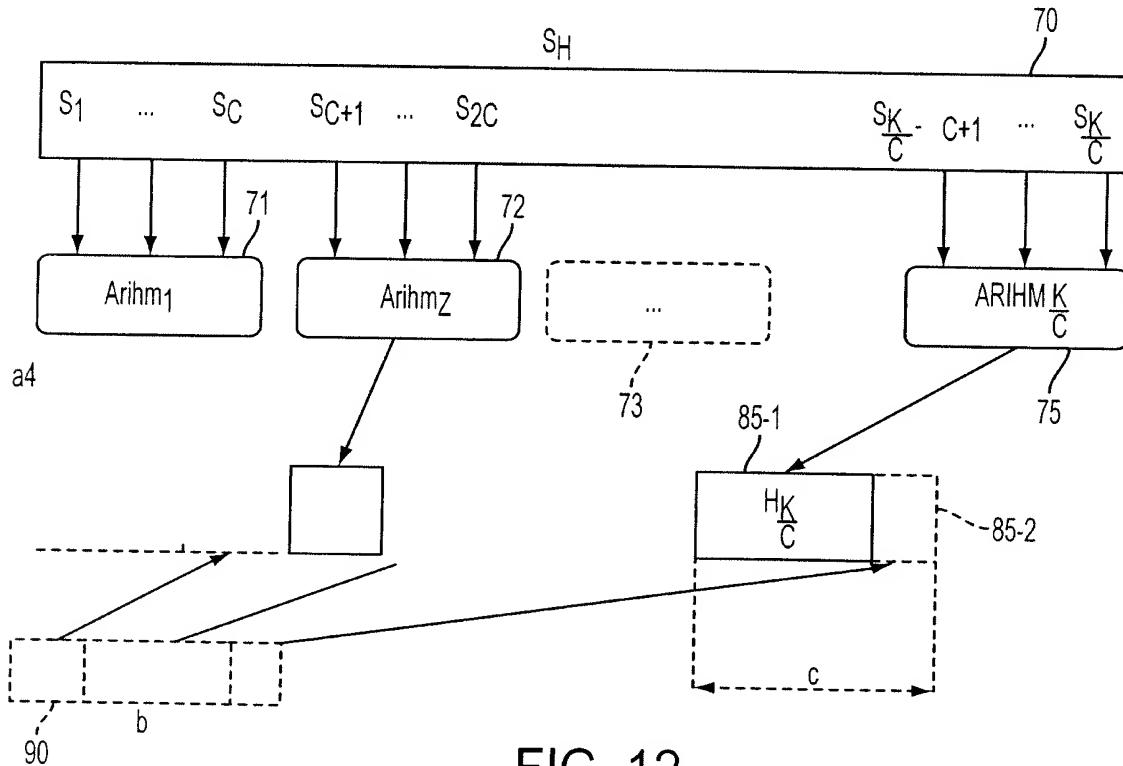


FIG. 12